

ABSTRACT

A lithium battery of the present invention comprises: a positive electrode formed from a composite electrode composition comprising sulfur or lithium-containing sulfur represented by the formula $(\text{Li}_x\text{S})_n$, wherein $0 < x \leq 2$ and n is a natural number, and a metal complex of an organic sulfur compound having a thiol group or thiolate group in the molecule; a negative electrode formed from a lithium-containing composite nitride represented by the general formula $\text{Li}_{3-x}\text{M}_x\text{N}$, wherein M represents one transition element selected from the group consisting of Ti, V, Cr, Mn, Fe, Co, Ni and Cu, and x is a real number within a range of $0.1 \leq x \leq 0.8$; and a lithium ion conductive nonaqueous electrolyte.

0956030-051604